

MiniBooNE (Anti-Neutrino Mode)

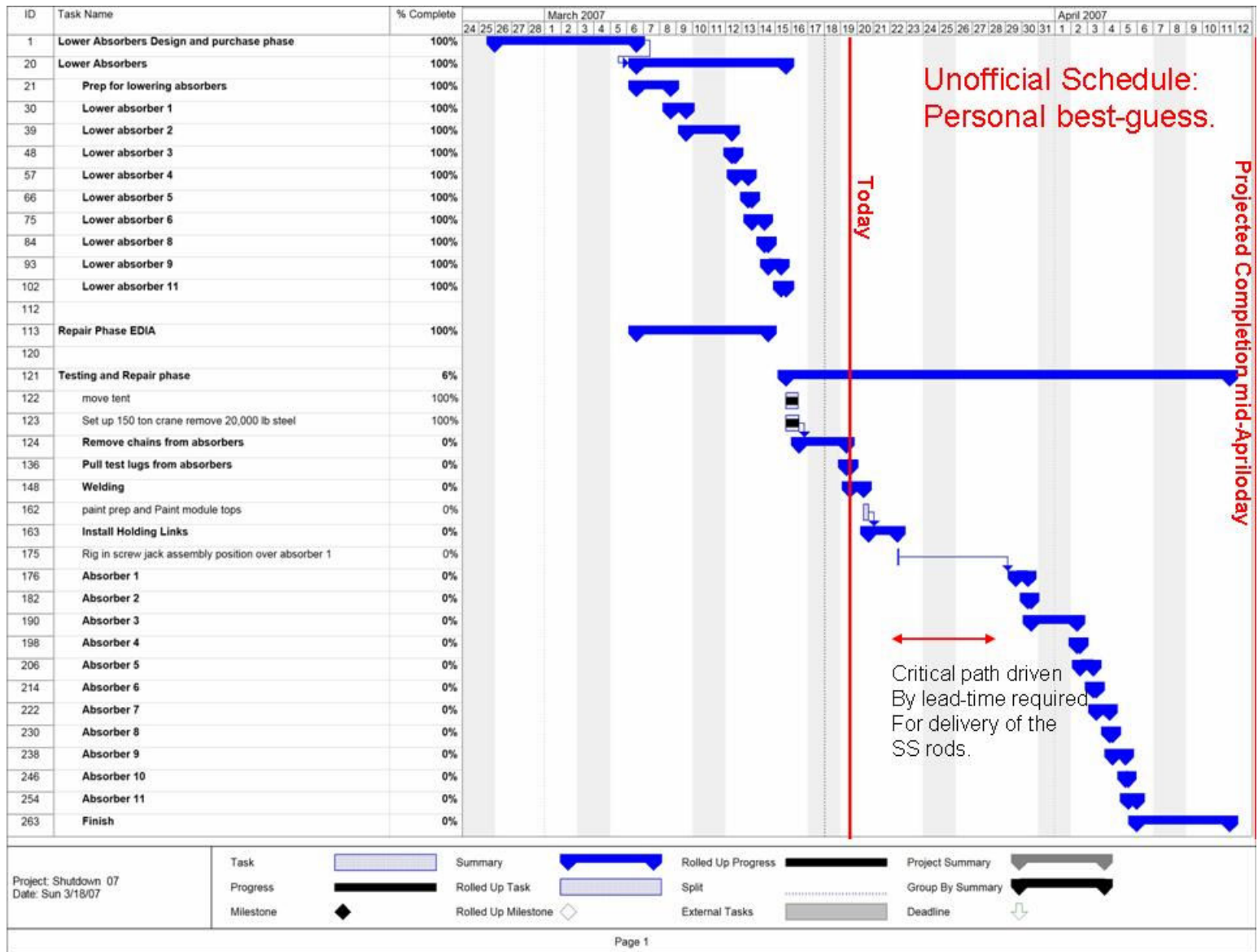
All Experimenter's Meeting

March 19, 2007

Ray Stefanski

Brief summary of beam-off condition:

- The Booster Neutrino Beam was shutdown on December 31, 2006;
- Investigation of the 25M enclosure discovered 2 modules had fallen into the beam;
- Further study revealed that hydrogen embrittlement caused the chains to fail;
No chlorine was found, suggesting that SS would be a good replacement.
- The AD developed a recovery strategy that was set in motion on March 7;
- The 1st phase of the recovery – lowering all 11 modules – was complete on March 15;
Many thanks to:
 - o Mike Andrews and AD repair team,
 - o specifically Pat Hurh and Joel Misek for design of the screw jack lifting device and lifting procedures;
 - o John Featherstone and crew for onsite effort to efficiently and safely lower the modules.
- The 2nd phase has begun with the removal of the main member in the supporting structure;
- The critical path to completion is the lead-time for delivery of the SS rods.

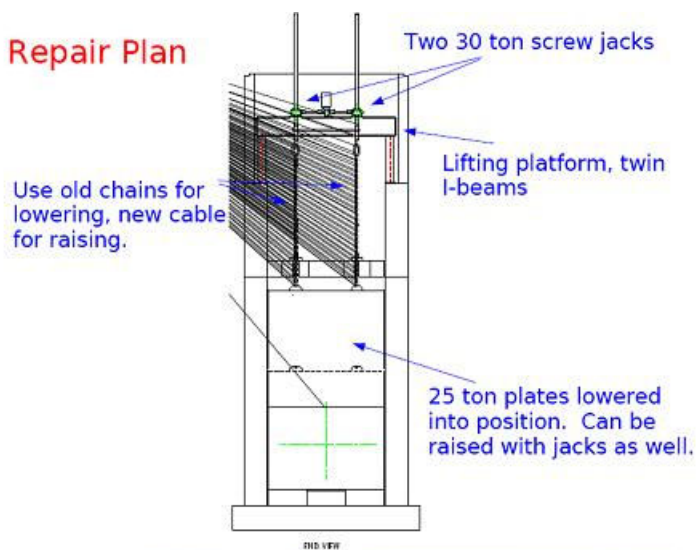


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Repair Plan



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Goals for the remainder of the running period:

- Repair the 25M absorber. Setup for 50M absorber run.
 - 1st phase is complete thanks to AD.
 - The schedule aims for a completion date in mid-April.

- Collect 0.6 to 0.9×10^{20} PoT in $\bar{\nu}$ mode.

Totals to date :

- 0.2×10^{20} PoT with no absorber interference;
- 0.7×10^{20} PoT with absorber #10 down;
- 0.6×10^{20} PoT with absorber #10 and #7 down.

- Continue $\bar{\nu}$ analysis :

CCQE; π^0 production; and Neutral Current interactions.